

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581619

Luminaire Tested: **HCC6S10D010MW-HM60525840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S10D010MW-HM60525840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

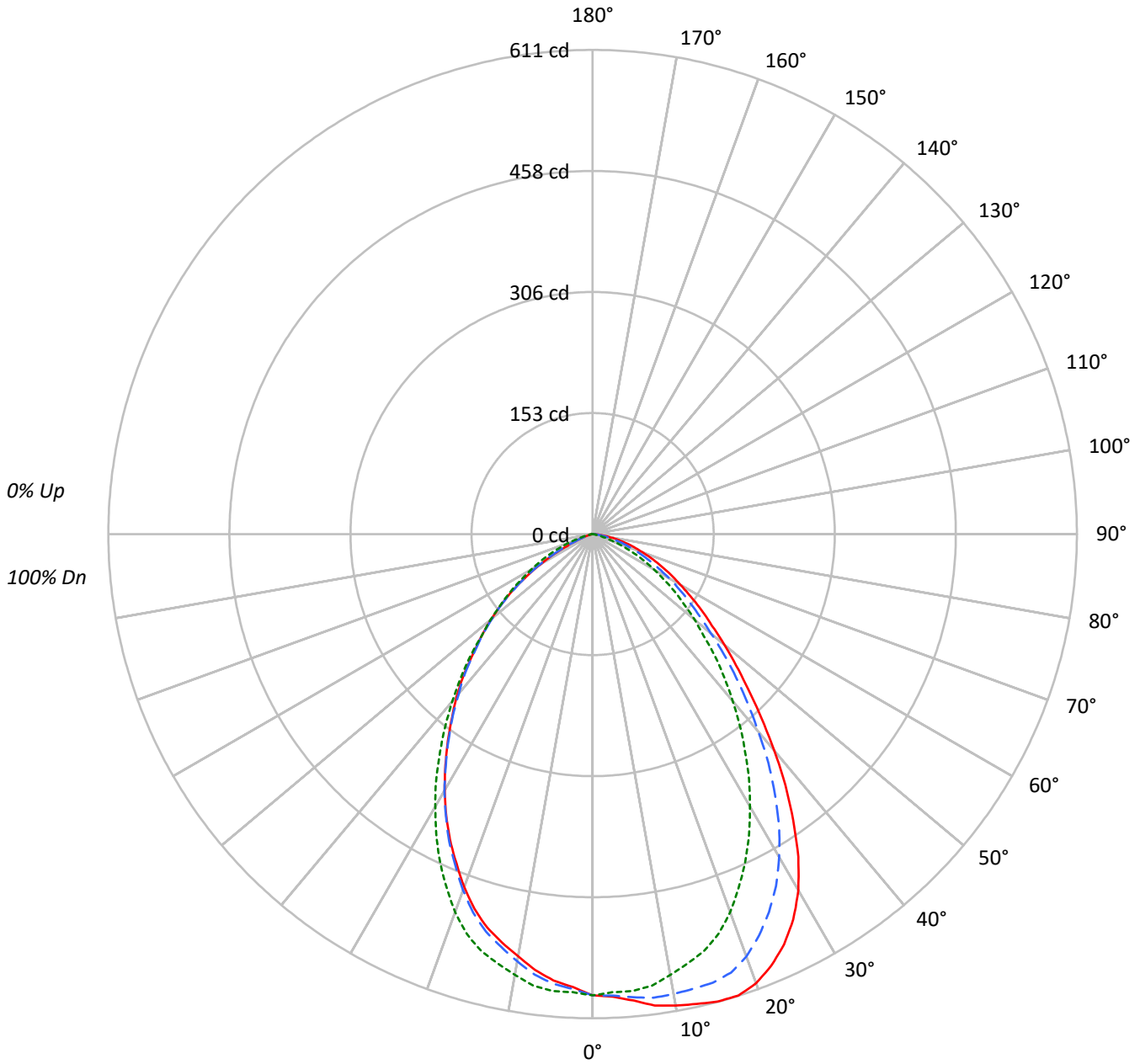
Lumens per Lamp: N/A
Luminaire Lumens: 1037.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 31905 | 31905 | 31905 |
| 5° | 32517 | 31846 | 31119 |
| 10° | 33622 | 31440 | 30115 |
| 15° | 34654 | 30891 | 29172 |
| 20° | 35190 | 29607 | 27647 |
| 25° | 34556 | 27576 | 25743 |
| 30° | 32847 | 25130 | 23624 |
| 35° | 29520 | 22453 | 21308 |
| 40° | 25476 | 19680 | 19036 |
| 45° | 21568 | 16947 | 16498 |
| 50° | 18498 | 14311 | 14174 |
| 55° | 16038 | 12043 | 11574 |
| 60° | 14001 | 9780 | 8256 |
| 65° | 12323 | 7536 | 4566 |
| 70° | 10627 | 4985 | 2228 |
| 75° | 9023 | 2415 | 868 |
| 80° | 6977 | 1042 | 505 |
| 85° | 4151 | 503 | 503 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.9 | 5.3 |
| 10°-20° | 155.3 | 15.0 |
| 20°-30° | 218.7 | 21.1 |
| 30°-40° | 223.4 | 21.5 |
| 40°-50° | 180.1 | 17.4 |
| 50°-60° | 120.8 | 11.7 |
| 60°-70° | 61.1 | 5.9 |
| 70°-80° | 19.5 | 1.9 |
| 80°-90° | 3.0 | 0.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 428.9 | 41.4 |
| 0°-40° | 652.3 | 62.9 |
| 0°-60° | 953.3 | 91.9 |
| 0°-90° | 1037.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1037.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 582 | 582 | 582 | 582 | 582 | |
| 5° | 591 | 587 | 579 | 570 | 566 | 57 |
| 15° | 611 | 586 | 544 | 520 | 514 | 172 |
| 25° | 571 | 526 | 456 | 428 | 426 | 262 |
| 35° | 441 | 401 | 336 | 317 | 318 | 275 |
| 45° | 278 | 256 | 219 | 211 | 213 | 216 |
| 55° | 168 | 149 | 126 | 120 | 121 | 151 |
| 65° | 95 | 79 | 58 | 38 | 35 | 95 |
| 75° | 43 | 30 | 11 | 4 | 4 | 46 |
| 85° | 7 | 3 | 1 | 1 | 1 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 |
| 2.5° | 584.3 | 583.5 | 582.8 | 581.2 | 578.7 | 576.2 | 574.6 | 572.9 | 572.1 |
| 5° | 590.9 | 589.3 | 586.8 | 583.5 | 578.7 | 572.9 | 569.6 | 566.3 | 565.5 |
| 7.5° | 600.0 | 596.7 | 590.1 | 582.8 | 574.6 | 566.3 | 560.7 | 557.4 | 554.9 |
| 10° | 604.0 | 598.3 | 589.3 | 577.0 | 564.8 | 554.9 | 547.5 | 542.7 | 541.0 |
| 12.5° | 607.3 | 600.8 | 587.6 | 571.3 | 554.9 | 541.8 | 533.6 | 529.5 | 528.0 |
| 15° | 610.6 | 604.0 | 586.0 | 564.8 | 544.3 | 528.8 | 519.7 | 515.6 | 514.0 |
| 17.5° | 610.6 | 601.5 | 580.3 | 553.3 | 528.8 | 510.0 | 500.9 | 496.8 | 496.0 |
| 20° | 603.2 | 593.4 | 567.2 | 535.3 | 507.5 | 486.2 | 478.0 | 475.6 | 473.9 |
| 22.5° | 589.3 | 577.9 | 548.3 | 512.3 | 482.1 | 461.6 | 452.6 | 451.0 | 449.3 |
| 25° | 571.3 | 559.9 | 526.3 | 487.8 | 455.9 | 435.5 | 428.0 | 426.4 | 425.6 |
| 27.5° | 548.3 | 536.1 | 500.9 | 461.6 | 427.2 | 407.6 | 401.1 | 401.1 | 400.3 |
| 30° | 518.9 | 505.0 | 470.6 | 431.3 | 397.0 | 379.0 | 374.0 | 374.0 | 373.2 |
| 32.5° | 482.9 | 469.0 | 437.9 | 400.3 | 367.4 | 348.7 | 344.6 | 346.2 | 345.4 |
| 35° | 441.1 | 429.7 | 401.1 | 364.3 | 335.5 | 318.4 | 316.7 | 318.4 | 318.4 |
| 37.5° | 399.4 | 388.7 | 364.3 | 332.4 | 305.3 | 289.8 | 289.8 | 292.2 | 291.4 |
| 40° | 356.0 | 347.9 | 324.9 | 297.2 | 275.0 | 264.3 | 262.7 | 265.2 | 266.0 |
| 42.5° | 315.1 | 308.6 | 288.9 | 266.0 | 246.3 | 235.7 | 238.2 | 239.8 | 240.7 |
| 45° | 278.2 | 271.7 | 256.2 | 232.4 | 218.6 | 211.1 | 211.1 | 213.6 | 212.8 |
| 47.5° | 245.5 | 240.7 | 225.0 | 202.2 | 189.8 | 186.7 | 188.3 | 189.8 | 189.8 |
| 50° | 216.9 | 209.5 | 194.8 | 176.8 | 167.8 | 163.7 | 165.4 | 166.2 | 166.2 |
| 52.5° | 189.8 | 185.0 | 170.3 | 153.8 | 145.7 | 143.2 | 143.2 | 144.1 | 144.1 |
| 55° | 167.8 | 162.1 | 149.0 | 132.6 | 126.0 | 122.8 | 120.3 | 119.5 | 121.1 |
| 57.5° | 146.5 | 141.6 | 129.3 | 113.8 | 106.4 | 103.1 | 98.3 | 96.6 | 98.3 |
| 60° | 127.7 | 123.6 | 111.3 | 96.6 | 89.2 | 82.6 | 77.0 | 73.7 | 75.3 |
| 62.5° | 111.3 | 106.4 | 94.1 | 81.8 | 73.7 | 66.3 | 57.3 | 52.4 | 54.8 |
| 65° | 95.0 | 90.9 | 78.6 | 66.3 | 58.1 | 49.1 | 38.5 | 35.2 | 35.2 |
| 67.5° | 80.3 | 76.1 | 64.6 | 54.0 | 44.1 | 33.5 | 23.8 | 22.9 | 23.8 |
| 70° | 66.3 | 62.3 | 52.4 | 41.8 | 31.1 | 20.5 | 13.9 | 13.9 | 13.9 |
| 72.5° | 54.8 | 49.9 | 41.0 | 30.3 | 19.7 | 10.6 | 7.4 | 8.2 | 8.2 |
| 75° | 42.6 | 38.5 | 30.3 | 20.5 | 11.4 | 4.9 | 4.1 | 4.1 | 4.1 |
| 77.5° | 31.9 | 28.6 | 21.3 | 13.1 | 5.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 80° | 22.1 | 18.8 | 13.9 | 8.2 | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 |
| 82.5° | 13.1 | 11.4 | 8.2 | 4.1 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 6.6 | 5.8 | 3.3 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 1.6 | 1.6 | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



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— 0°-180° - - 45°-225° - - - - 90°-270°

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